



Substitute for form 1449A/B/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	09/747,774
				Filing Date	December 21, 2000
				First Named Inventor	Christine A. Klein et al.
				Art Unit	1646
				Examiner Name	R. Li
Sheet	1	of	7	Attorney Docket Number	60637C5DV(50370)
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LH	AA	09/258,600		Fowlkes et al. (filed 02-1999)	
	AB	09/286,166 *		Fowlkes et al. (filed 04-1999)	
	AC	09/581,861		Broach et al. (filed 03-2001)	
	AD	09/747,774		Klein et al. (filed 12-2000)	
	AE	10/263,341		Fowlkes et al. (filed 10-2002)	
	AF	10/277,607		Klein et al. (filed 10-2002)	
	AG	10/752,478		Klein et al. (filed 01-2004)	
	AH	US-4,418,149	11-1983	Ptashne et al.	
	AI	US-4,833,080	05-1989	Brent et al.	
	AJ	US-5,284,746	02-1994	Siedziwski et al.	
ef	AK	US-5,573,944	11-1996	Kirschner et al.	
	AL	US-5,739,029	04-1998	King et al.	
	AM	US-5,789,184	08-1998	Fowlkes et al.	
	AN	US-6,100,042	08-2000	Fowlkes et al.	
	AO	US-5,876,951	03-1999	Fowlkes et al.	
	AP	US-6,255,059	07-2001	Fowlkes et al.	
	AQ	US-6,168,927	01-2001	King et al.	
	AR	US-			
	AS	US-			
	AT	US-			
AV	US-				
AW	US-				
AX	US-				
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AA1	US-				
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AC1	US-				
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AE1	US-				
AF1	US-				
AG1	US-				
AH1	US-				
AI1	US-				
AJ1	US-				
AK1	US-				
AL1	US-				

\* Application has been transferred to another firm and is no longer available.

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language translation is attached.

Examiner Signature	<i>Syan Chandra</i>	Date Considered	11/23/04
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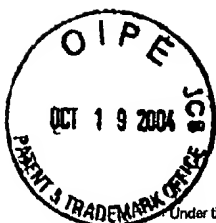
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Sheet	2	of	7	Attorney Docket Number	60637C5DV(50370)
<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
h	CA	Akada, R. et al. "Genetic Relationships Between the G Protein $\beta\gamma$ Complex, Ste5p, Ste20p and Cdc42p: Investigation of Effector Roles in the Yeast Pheromone Response Pathway," <i>Genetics</i> 143:103-117 (1996)			
	CB	Artemyev, Nikolai O. et al. "Sites of Interaction between Rod G-Protein $\alpha$ -Subunit and cGMP-phosphodiesterase $\gamma$ -Subunit," <i>J. Biol. Chem.</i> 267(35):25067-72 (1992)			
	CC	Awramik, S. M. "New fossil finds in old rocks," <i>Nature</i> 319:446-47 (1986)			
	CD	Bender, Alan and Sprague, George F. Jr. "Pheromones and Pheromone Receptors Are the Primary Determinants of Mating Specificity in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Genetics</i> 121:463-76 (1989)			
	CE	Blinder, Dmitry et al. "Constitutive Mutants in the Yeast Pheromone Response: Ordered function of the Gene Products," <i>Cell</i> 56:479-486 (1989)			
	CF	Brill, Julie A. et al. "A Role for Autophosphorylation Revealed by Activated Alleles of <i>FUS3</i> , the Yeast MAP Kinase Homolog," <i>Molecular Biology of the Cell</i> 5:297-312 (1994)			
	CG	Burack, W. Richard et al. "The Activating Dual Phosphorylation of MAPK by MEK Is Nonprocessive," <i>Biochemistry</i> 36(20):5929-5933 (1997)			
	CH	Cavallini, Bruno et al. "A yeast activity can substitute for the HeLa Cell TATA box factor," <i>Nature</i> 334:77-80 (1988)			
	CI	Chan, Russell K. and Otte, Carol A. "Isolation and Genetic Analysis of <i>Saccharomyces cerevisiae</i> Mutants Supersensitive to G1 Arrest by a Factor and $\alpha$ Factor," <i>Molecular and Cellular Biol.</i> 2(1):11-20 (1982)			
	CJ	Chang, Fred and Herskowitz, Ira "Identification of a Gene Necessary for Cell Cycle Arrest by a Negative Growth Factor of Yeast: FAR1 is an Inhibitor of a G1 Cyclin, CLN2," <i>Cell</i> 63:999-1011 (1990)			
	CK	Clark, Karen L. et al. "Interactions among the Subunits of the G-protein Involved in <i>Saccharomyces cerevisiae</i> Mating," <i>Molecular and Cellular Biol.</i> 13(1):1-8 (1993)			
	CL	Cole, Gary M. et al. "Stoichiometry of G Protein Subunits Affects the <i>Saccharomyces cerevisiae</i> Mating Pheromone Signal Transduction Pathway," <i>Molecular and Cellular Biology</i> 10(2):510-517 (1990)			
	CM	Coleman, David E. et al. "Structures of Active Conformation of $G_{i\alpha 1}$ and the Mechanism of GTP Hydrolysis," <i>Science</i> 265:1405-12 (1994)			
	CN	Conklin, Bruce R. et al. "Substitution of three amino acids switches receptor specificity of $G_{\alpha q}$ to that of $G_{\alpha i}$ ," <i>Nature</i> 363:274-76 (1993)			
	CO	Dmochowska, Aleksandra et al. "Yeast <i>KEX1</i> Gene Encodes a Putative Protease with a Carboxypeptidase B-like Function Involved in Killer Toxin and $\alpha$ -Factor Precursor Processing," <i>Cell</i> 50:573-84 (1987)			
	CP	Dolan, J. W. et al. "Overproduction of the yeast STE12 protein leads to constitutive transcriptional induction," <i>Genes &amp; Development</i> 4(4):492-502 (1990)			
h	CQ	Etienne, Gilles et al. "A Screening Method for Antifungal Substances Using <i>Saccharomyces cerevisiae</i> Strains Resistant to Polyene Macrolides," <i>J. of Antibiotics</i> 43(2):199-206 (1990)			

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Sheet	3	of	7
CR	Fasullo, Michael T. and Davis, Ronald W. "Direction of Chromosome Rearrangements in <i>Saccharomyces cerevisiae</i> by Use of <i>his3</i> Recombination Substrates," <i>Molecular and Cellular Biol.</i> 8(10):4370-80 (1988)		
CS	Ferrell, James E. Jr. et al. "The Biochemical Basis of an All-or-None Cell Fate Switch in <i>Xenopus</i> Oocytes," <i>Science</i> 280:895-898 (1998)		
CT	Ferrell, James E. Jr. "Tripping the switch fantastic: how a protein kinase cascade can convert graded inputs into switch-like outputs," <i>Trends In Biochem. Sci.</i> 21(12):460-6 (1996)		
CU	Franke, Arthur E. et al. "Human C5a Anaphylatoxin: Gene Synthesis, Expression, and Recovery of Biologically Active Material from <i>Escherichia coli</i> ," <i>Methods in Enzymology</i> 162:653-68 (1988)		
CV	Gallego, Carme et al. "Myristoylation of the G <sub>α12</sub> polypeptide, a G protein α subunit, is required for its signaling and transformation functions," <i>Proc. Natl. Acad. Sci. USA</i> 89:9695-99 (1992)		
CW	Garritsen, Anja et al. "The N-Terminal coiled-coil domain of β is essential for γ association: A Model for G-Protein βγ subunit interaction," <i>Proc. Natl. Acad. Sci. USA</i> 90:7706-10 (1993)		
CX	Gerard, Norma P. and Gerard, Craig "Construction and Expression of a Novel Recombinant Anaphylatoxin, C5a-N19, a Probe for the Human C5a Receptor," <i>Biochemistry</i> 29(39):9274-81 (1990)		
CY	Graf, Rolf et al. "A Truncated Recombinant α Subunit of G <sub>β3</sub> with a Reduced Affinity for βγ Dimers and Altered Guanosine 5'-3'-O-(Thio)triphosphate Binding," <i>J. of Biol. Chem.</i> 267(34):24307-14 (1992)		
CZ	Gros, Philippe et al. "Mammalian Multidrug Resistance Gene: Complete cDNA Sequence Indicates Strong Homology to Bacterial Transport Proteins," <i>Cell</i> 47:371-80 (1986)		
CA1	Hagen, David C. et al. "Evidence the yeast <i>STE3</i> gene encodes a receptor for the peptide pheromone a factor: Gene sequence and implications for the structure of the presumed receptor," <i>Proc. Natl. Acad. Sci. USA</i> 83:1418-22 (1986)		
CB1	Harbury, Pehr B. et al. "A Switch Between Two-, Three- and Four-Stranded Coiled Coils in GCN4 Leucine Zipper Mutants," <i>Science</i> 262:1401-07 (1993)		
CC1	Hartwell, Leland H. "Mutants of <i>Saccharomyces cerevisiae</i> Unresponsive to Cell Division Control by Polypeptide Mating Hormone," <i>J. Cell Biol.</i> 85:811-22 (1980)		
CD1	Hasson, M.S. et al. "Mutational Activation of the <i>STE5</i> Gene Product Bypasses the Requirement for G Protein β and γ Subunits in the Yeast Pheromone Response Pathway," <i>Molecular and Cellular Biology</i> 14(2):1054-1065 (1994)		
CE1	He, Bin et al. "RAM2, an essential gene of yeast, and RAM1 encode the two polypeptide components of the farnesyltransferase that prenylates a-actor and Ras proteins," <i>Proc. Natl. Acad. Sci. USA</i> 88:11373-77 (1991)		
CF1	Hiltunen, J. Kalervo et al. "Peroxisomal Multifunctional β-Oxidation Protein of <i>Saccharomyces cerevisiae</i> ," <i>J. of Biol. Chem.</i> 267(10):6646-6653 (1992)		
CG1	Hrycyna, Christine A. et al. "The <i>Saccharomyces cerevisiae</i> <i>STE14</i> gene encodes a methyltransferase that mediates C-terminal methylation of a-factor and RAS Proteins," <i>The EMBO J.</i> 10(1):1699-1709 (1991)		

Examiner Signature	<i>Gyan Choudhary</i>	Date Considered	4/23/04
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Sheet	4	of	7	
CH1	✓	Huang, Chi-Ying F. et al. "Ultrasensitivity in the mitogen-activated protein kinase cascade," <i>Proc. Natl. Acad. Sci. USA</i> 93:10078-10083 (1996)		
CI1		Medici, R. et al. "Efficient signal transduction by a chimeric yeast-mammalian G protein $\alpha$ subunit Gpa1-Gsa covalently fused to the yeast receptor Ste2," <i>EMBO</i> 16:7241-7249 (1997)		
CJ1		Inouye, Carla et al. "Ste5 RING-H2 Domain: Role in Ste4-Promoted Oligomerization for Yeast Pheromone Signaling," <i>Science</i> 278:103-106 (1997)		
CK1		Jabbar, M. Abdul et al. "Influenza Viral (A/WSN/33) hemagglutinin is expressed and glycosylated in the yeast <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:2019-23 (1985)		
CL1		Journot, Laurent et al. "Amino Acids 367-376 of the G $_s$ $\alpha$ subunit induce membrane association when fused to soluble amino-terminal deleted G $_{i1}$ $\alpha$ subunit," <i>Proc. Natl. Acad. Sci. USA</i> 88:10054-58 (1991)		
CM1		Julius, David et al. "Glycosylation and Processing of Prepro- $\alpha$ -Factor through the Yeast Secretory Pathway," <i>Cell</i> 36:309-18 (1984)		
CN1		Julius, David et al. "Isolation of the Putative Structural Gene for the Lysine-Arginine-Cleaving Endopeptidase Required for Processing of Yeast Prepro- $\alpha$ -factor," <i>Cell</i> 37:1075-89 (1984)		
CO1		Julius, David et al. "Yeast $\alpha$ Factor is Processed from a Larger Precursor Polypeptide: The Essential Role of a Membrane-Bound Dipeptidyl Aminopeptidase," <i>Cell</i> 32:839-52 (1983)		
CP1		Kaiser, Chris A. et al. "Many Random Sequences Functionally Replace the Secretion Signal Sequence of Yeast Invertase," <i>Science</i> 235:312-17 (1987)		
CQ1		Kingsman, S.M. et al. "The production of mammalian protein in <i>Saccharomyces cerevisiae</i> ," <i>Tibtech</i> 5:53-57 (1987)		
CR1		Kramer, R. A. et al. "HTLV-III gag Protein Is Processed in Yeast Cells by the Virus pol-Protease," <i>Science</i> 231:1580-85 (1986)		
CS1		Kuchler, Karl and Thorner, Jeremy "Functional expression of human <i>mdr1</i> in the yeast <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 89:2302-06 (1992)		
CT1		Kuchler, Karl et al. "Saccharomyces cerevisiae STE6 gene product: a novel pathway for protein export in eukaryotic cells," <i>The EMBO J.</i> 8(13):3973-84 (1989)		
CU1		Kurjan, Janet "α-Factor Structural Gene Mutations in <i>Saccharomyces cerevisiae</i> : Effects on α-Factor Production and Mating," <i>Molecular and Cellular Biol.</i> 5(4):787-96 (1985)		
CV1		Kurjan, Janet and Herskowitz "Structure of a Yeast Pheromone Gene (MFα): A Putative α-Factor Precursor Contains Four Random Copies of Mature α-Factor," <i>Cell</i> 30:933-43 (1982)		
CW1		Lambright, David G. et al. "Structural determinants for activation of the α-subunit of a heterotrimeric G protein," <i>Nature</i> 369:621-28 (1994)		
CX1		Lolait, S. et al., "Extrapituitary expression of the rat V1b vasopressin receptor gene," <i>PNAS USA</i> 92:6783-6787 (1995).		
CY1	✓	Lee, Ethan et al. "The G22A Mutant of G $_{sa}$ Highlights the Requirement for Dissociation of G Protein Subunits," <i>J. Biol. Chem.</i> 267(2):1212-18 (1992)		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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Sheet	5	of	7	Attorney Docket Number	60637C5DV(50370)

8c	CZ1	Lemire, Bernard D. et al. "The Mitochondrial Targeting Function of Randomly Generated Peptide Sequences Correlates with Predicted Helical Amphiphilicity," <i>J. Biol. Chem.</i> 264(34):20206-12 (1989)	
	CA2	Linder, Maurine E. et al. "Lipid Modifications of G Protein Subunits: Myristoylation of G <sub>o</sub> Increases Its Affinity for $\beta\gamma$ ," <i>J. Biol. Chem.</i> 266(7):4654-59 (1991)	
	CB2	Lupas, Andrei N. et al. "Do G protein subunits associate via a three-stranded coiled coil?" <i>FEBS</i> 314(2):105-08 (1992)	
	CC2	Mackay, Vivian and Manney, Thomas R. "Mutations Affecting Sexual Conjugation and Related Processes in <i>Saccharomyces cerevisiae</i> . II Genetic Analysis of Nonmating Mutants," <i>Genetics</i> 76:273-88 (1974)	
	CD2	Markby, David W. et al. "Separate GTP Binding and GTPase Activating Domains of a G $\alpha$ Subunit," <i>Science</i> 262:1895-1901 (1993)	
	CE2	Michaelis, Susan and Herskowitz, Ira "The $\alpha$ -Factor Pheromone of <i>Saccharomyces cerevisiae</i> is Essential for Mating," <i>Molecular and Cellular Biol.</i> 8(3):1309-18 (1988)	
	CF2	Milano, C.A. et al. "Enhanced Myocardial Function in Transgenic Mice Overexpressing the $\beta_2$ -Adrenergic Receptor," <i>Science</i> 264:582-86 (1994)	
	CG2	Mumby, Susanne M. et al. "G-Protein $\alpha$ -subunit expression, myristoylation, and membrane association in COS cells," <i>Proc. Natl. Acad. Sci. USA</i> 87:728-32 (1990)	
	CH2	Nakafuku, Masato et al. "Occurrence in <i>Saccharomyces cerevisiae</i> of a gene homologous to the cDNA coding for the $\alpha$ -subunit of mammalian G proteins," <i>Proc. Natl. Acad. Sci. USA</i> 84:2140-44 (1987)	
	CI2	Nakayama, N. et al. "Common signal transduction system shared by <i>STE2</i> and <i>STE3</i> in haploid cells of <i>Saccharomyces cerevisiae</i> : autocrine cell-cycle arrest results from forced expression of <i>STE2</i> ," <i>The EMBO J.</i> 6(1):249-54 (1987)	
	CJ2	Neer, Eva J. et al. "The Amino Terminus of a G Protein $\alpha$ Subunits Is Required for Interaction with $\beta\gamma$ ," <i>J. Biol. Chem.</i> 263(18):8996-9000 (1988)	
	CK2	Noel, Joseph P. et al. "The 2.2 Å crystal structure of transducin- $\alpha$ complexed with GTP- $\gamma$ -S," <i>Nature</i> 366:654-63 (1993)	
	CL2	Oeda, Kenji et al. "Expression of Rat Liver Cytochrome P-450MC cDNA in <i>Saccharomyces cerevisiae</i> ," <i>DNA</i> 4(3):203-10 (1985)	
	CM2	Ogden, Jill E. et al. "Efficient Expression of the <i>Saccharomyces cerevisiae</i> PGK Gene Depends on an Upstream Activation Sequence but Does Not Require TATA Sequences," <i>Molecular and Cellular Biol.</i> 6(12):4335-43 (1986)	
	CN2	Pronin, Alexey N. and Gautam, Narasimhan "Interaction between G-Protein $\beta$ and $\gamma$ subunit types is selective," <i>Proc. Natl. Acad. Sci. USA</i> 89:6220-24 (1992)	
	CO2	Ramer, Sandra W. and Davis, Ronald W. "A dominant truncation allele identifies a gene, <i>STE20</i> , that encodes a putative protein kinase necessary for mating in <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:452-456 (1993)	
	CP2	Rarick, Helen M. et al. "A Site on Rod G Protein $\alpha$ Subunit That Mediates Effector Activation," <i>Science</i> 256:1031-33 (1992)	
8c	CQ2	Schafer, William R. et al. "Enzymatic Coupling of Cholesterol Intermediates to a Mating Pheromone Precursor and to the Ras Protein," <i>Science</i> 249:1133-39 (1990)	

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CR2	Schafer, William R. et al. "Genetic and Pharmacological Suppression of Oncogenic Mutations in RAS Genes of Yeast and Humans," <i>Science</i> 245:379-85 (1989)				
CS2	Schärer, E. and Iggo, R. "Mammalian p53 can function as a transcription factor in yeast," <i>Nucleic Acids Research</i> 20(7):1539-45 (1992)				
CT2	Sikorski, Robert S. and Hieter, Philip "A System of Shuttle Vectors and Yeast Host Strains Designed for Efficient Manipulation of DNA in <i>Saccharomyces cerevisiae</i> ," <i>Genetics</i> 122:19-27 (1989)				
CU2	Singh, Arjun et al. " <i>Saccharomyces cerevisiae</i> contains two discrete genes coding for the $\alpha$ -factor pheromone," <i>Nucleic Acids Research</i> 11(12):4049-63 (1983)				
CV2	Slepek, Vladlen Z. et al. "Mutational Analysis of G Protein $\alpha$ Subunit $G_{\alpha}$ Expressed in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 268(2):1414-23 (1993)				
CW2	Spiegel, Allen M. et al. "The G Protein connection: molecular basis of membrane association," <i>TIBS</i> 16:338-41 (1991)				
CX2	Steube, Klaus et al. " $\alpha$ -Factor-leader-directed secretion of recombinant human-insulin-like growth factor I from <i>Saccharomyces cerevisiae</i> ," <i>Eur. J. Biochem.</i> 198:651-57 (1991)				
CY2	Stevenson, Brian J. et al. "Constitutive mutants of the Protein Kinase STE11 Activate the Yeast Pheromone Response Pathway in the Absence of the G Protein," <i>Genes &amp; Development</i> 6:1293-1304 (1992)				
CZ2	Strubin, Michel and Struhl, Kevin "Yeast and Human TFIID with Altered DNA-Binding Specificity of TATA Elements," <i>Cell</i> 68:721-30 (1992)				
CA3	Struhl, Kevin "Constitutive and Inducible <i>Saccharomyces cerevisiae</i> Promoters: Evidence for Two Distinct Molecular Mechanisms," <i>Molecular and Cellular Biol.</i> 6(11):3847-53 (1986)				
CB3	Struhl, Kevin et al. "High-frequency transformation of yeast: Autonomous replication of hybrid DNA molecules," <i>Proc. Natl. Acad. Sci. USA</i> 76(3):1035-39 (1979)				
CC3	Struhl, Kevin and Hill, David E. "Two Related Regulatory Sequences are Required for Maximal Induction of <i>Saccharomyces cerevisiae</i> <i>his3</i> Transcription," <i>Molecular and Cellular Biol.</i> 7(1):104-10 (1987)				
CD3	Sullivan, Kathleen A. et al., "Identification of receptor contact site involved in receptor-G protein coupling," <i>Nature</i> 330:758-60 (1987)				
CE3	Teem, John L. et al. "Identification of Revertants for the Cystic Fibrosis $\Delta F508$ Mutation Using STE6-CFTR Chimeras in Yeast," <i>Cell</i> 73:335-346 (1993)				
CF3	Thomas, Thomas C. et al. "G-protein $\alpha_0$ subunit: Mutation of conserved cysteines identifies a subunit contact surface and alters GDP affinity," <i>Proc. Natl. Acad. Sci. USA</i> 90:10295-99 (1993)				
CG3	Tyson, John J. et al. "Chemical kinetic theory: understanding cell-cycle regulation," <i>Trends In Biochem. Sci.</i> 21:89-96 (1996)				
CH3	Walker, John E. et al. "Distantly related sequences in the $\alpha$ - and $\beta$ -subunits of ATP synthase, myosin, kinases and other ATP-requiring enzymes and a common nucleotide binding fold," <i>The EMBO J.</i> 1(8):945-51 (1982)				

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CI3	Waters, M. Gerard et al. "Prepro- $\alpha$ -factor Has a Cleavable Signal Sequence," <i>J. Biol. Chem.</i> 263(13):6209-14 (1988)
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CJ3	Whiteway, Malcolm S. et al. "Association of the Yeast Pheromone Response G Protein $\beta$ Subunits with the MAP Kinase Scaffold Ste5p," <i>Science</i> 269:1572-1575 (1995)
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CZ3	
CA4	
CB4	
CC4	

Examiner Signature	<i>Gyan Chandra</i>	Date Considered	11/24/04
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